



MassDOT Highway Construction Contract: 121398 Superstructure Replacement N-14-016, Route 2 over the Hoosic River – North Adams

MassDOT Board of Directors Meeting

April 27, 2023



Project Purpose

Purpose and Need

The primary purpose of the project is to replace the structurally deficient superstructure of the bridge carrying Route 2 over the Hoosic River.

- The existing superstructure is considered structurally deficient.
- Due to the Special Member designation, the bridge is being inspected every 12 months.



Purpose and Need (Continued)

- The structural rate of deterioration of the steel stringers is exceeding normal maintenance activities.
- In addition, there has been rotation noted in the canal walls that serve as the abutments for the bridge superstructure.



Section loss in truss stringer



Web buckling and pack rust around the bearings



Construction Scope

Construction Scope

- Replacement of truss and beam superstructure with a two-span continuous steel superstructure.
- Installation of new, integral abutments behind the existing canal wall abutments.
- Installation of supplemental drilled micropiles at the center pier.



Stringer section loss and installed cribbing



Bituminous concrete wearing surface showing signs of cracking and spalling

Construction Scope (Continued)

- Temporary relocation of overhead utilities, water line, two gas lines, and a telephone duct bank will be required.
- Installation of code compliant traffic safety features.
- Upgrading of drainage features within the area.
- Repairs to Concrete Abutments and Pier.



Utility Conduits beneath the bridge



Spalling at West Abutment

Construction Duration & User Impacts

- Work shall be performed utilizing staged construction, maintaining flow of traffic in each direction.
- Isolated full closures to be in place for beam erection during off peak periods (nights/weekends).
- A single weekend closure to be allowed for Stage 2 deck pour.
- Construction Duration is estimated to be approximately 62 months.



Center Pier Elevation showing
satisfactory condition



General view of approach roadway



Public Process

Public Outreach and Engagement

Public Involvement

- General public
- Local municipalities
- Neighborhood groups
- Adjacent business owners
- Elected officials

Communication Methods

- Broadcast and print media
- Variable message signs
- Project webpage
- Mobile media
- MassDOT and Commonwealth websites
- Social media
- GovDelivery
- Fliers, fact sheets, newsletters, e-mail, presentations, briefings, meetings, and signs

Public Outreach and Engagement

- Pre-Recorded 25% Design Public Hearing Posted to MassDOT website on March 26, 2021.
- Private meeting with adjacent business owner (West Liquors) on September 23, 2022.
- Future Public Hearing to be held after award with Contractor.



Procurement

Construction Procurement

- Project was advertised on February 11, 2023
- Engineers Estimate was \$15,133,760.00
- Bid Opening was on March 21, 2023
- Four (4) Bids were received:

J H Maxymillian, Inc.	\$15,563,091.24
E T & L Corp.	\$16,216.917.00
J F White Contracting Co.	\$16,857,916.00
New England Infrastructure, Inc.	\$18,780,760.00

Overall Project Budget

Bid Amount	\$15,563,091.24
Contingencies 10%	\$ 1,556,309.12
Construction Engineering 5%	\$ 778,154.56
Traffic Police	\$ 800,000.00
Trainees	\$ 4,000.00
Total Budget	\$18,701,554.92

The total cost for this construction contract is funded with 20% State and 80% Federal Funding. The project was programmed in the 2023 CIP for \$17.8M

Request of the MassDOT Board

Staff request that the MassDOT Board of Directors authorize and approve the Secretary of the Massachusetts Department of Transportation, or her designee, to award and execute MassDOT Construction Contract 121398: North Adams – Superstructure Replacement N-14-016, Route 2 over the Hoosic River with J.H. Maxymillian, Inc. in the amount of \$ 15,563,091.24.